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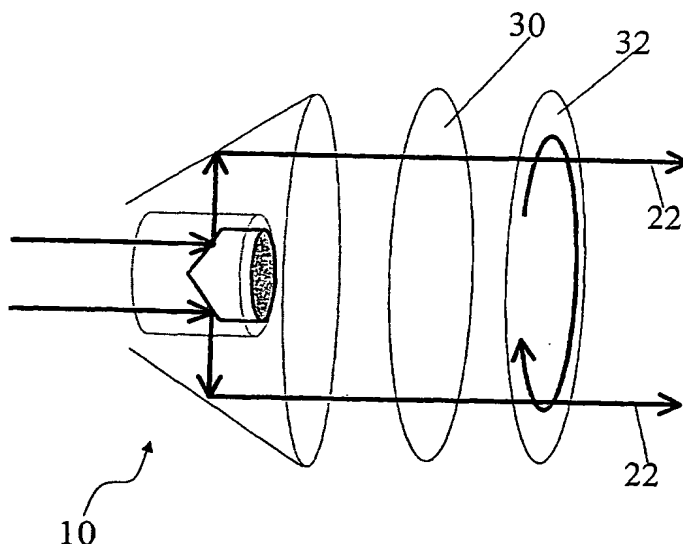
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(54) Title: SYSTEM AND METHOD FOR PRODUCING A LIGHT BEAM WITH SPATIALLY VARYING POLARIZATION



(57) Abstract: An apparatus for providing a light beam with spatially varying polarization. The apparatus comprises: two circumferentially curved reflectors positioned substantially opposite each other, a polarizer positioned in an optical path between the two reflectors, for polarizing light reflected from one reflector before it reaches the other. A non-polarized light beam incident along a given axis on one of the reflectors is radially reflected off that reflector, acquires predetermined polarization from the polarizer and is then reflected off the second reflector to a light beam of spatially varying polarization.



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